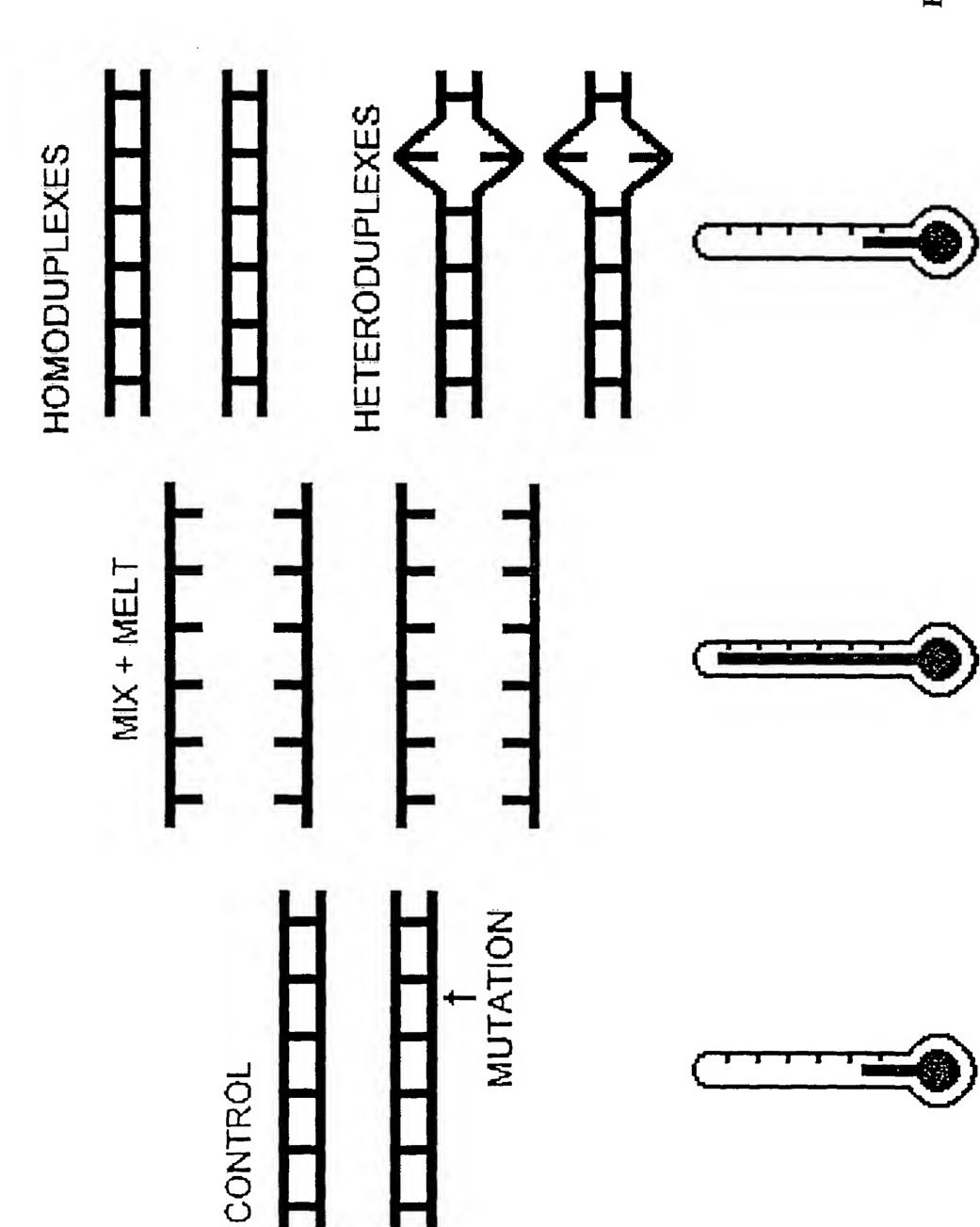
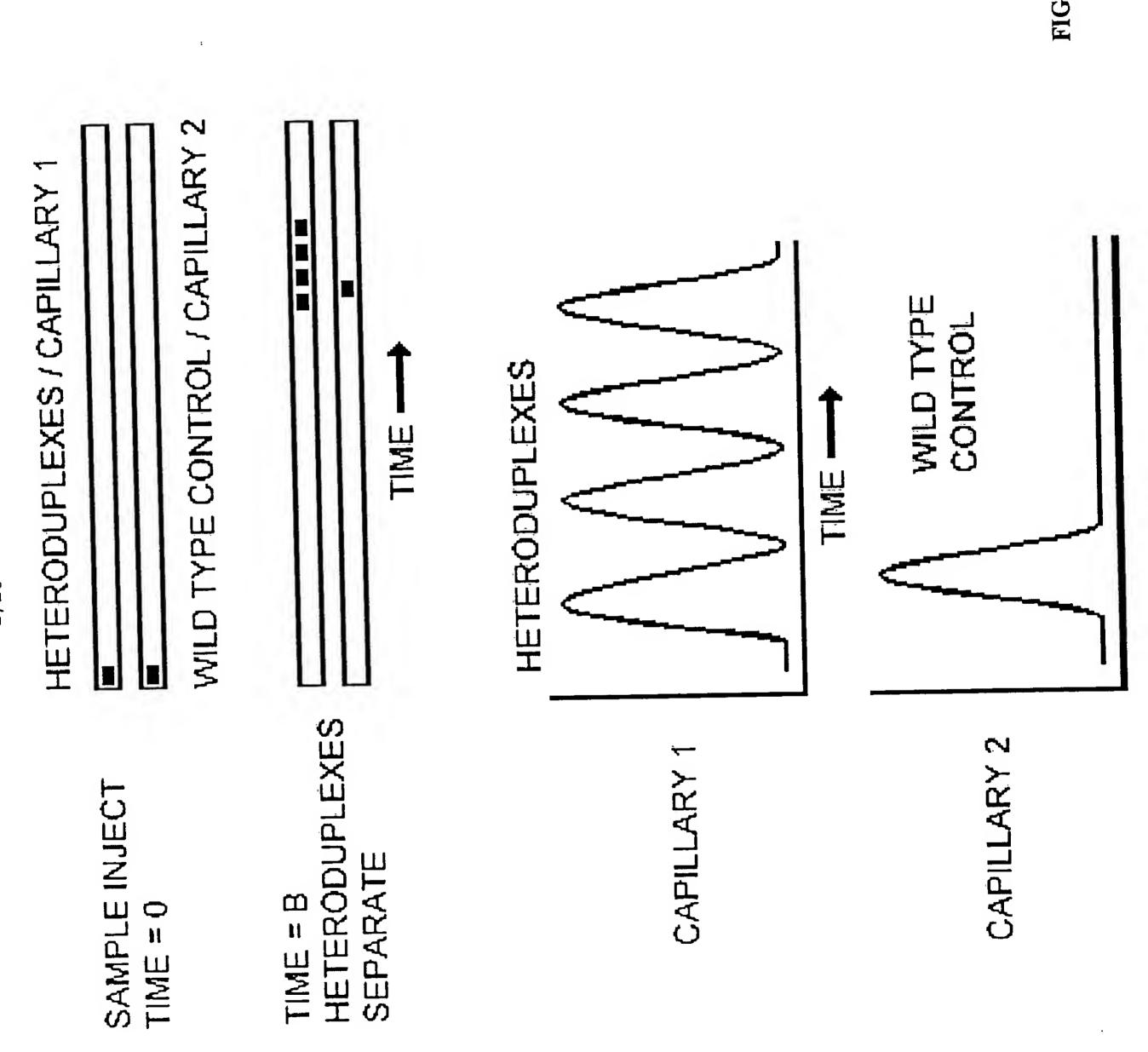
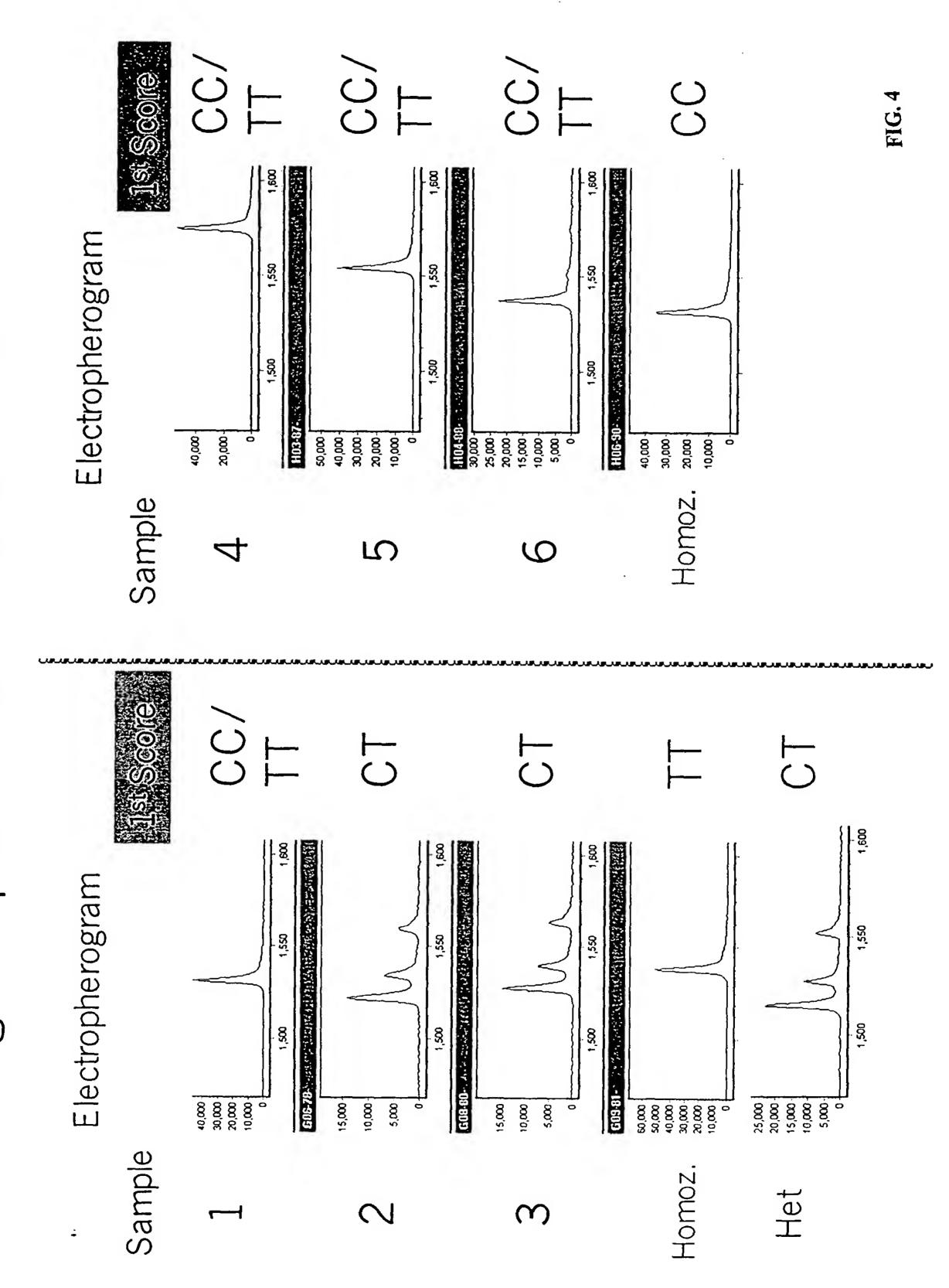
Formation of homo- and heteroduplexes



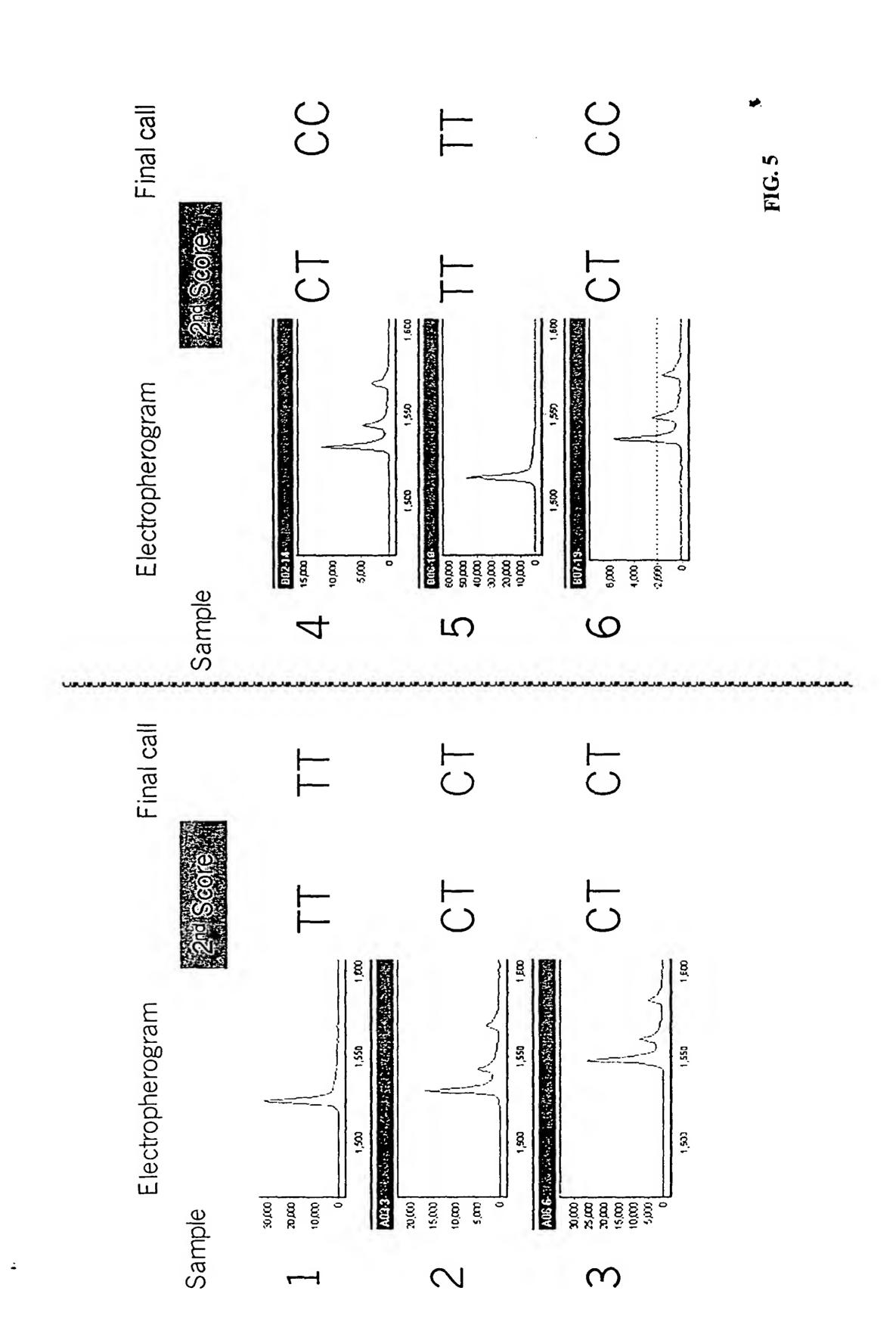


Time C1Add to

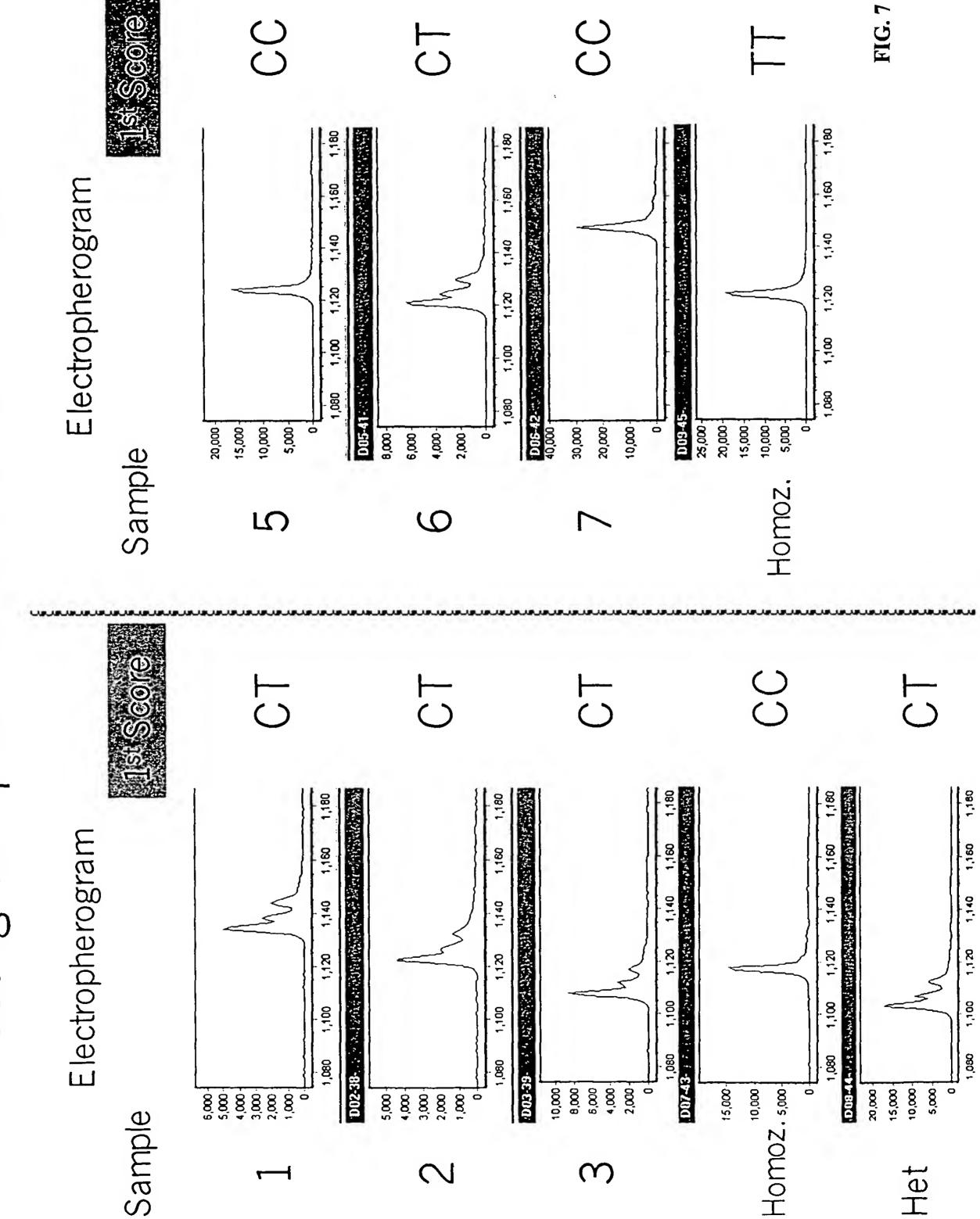
Testing Samples without Addition of Control



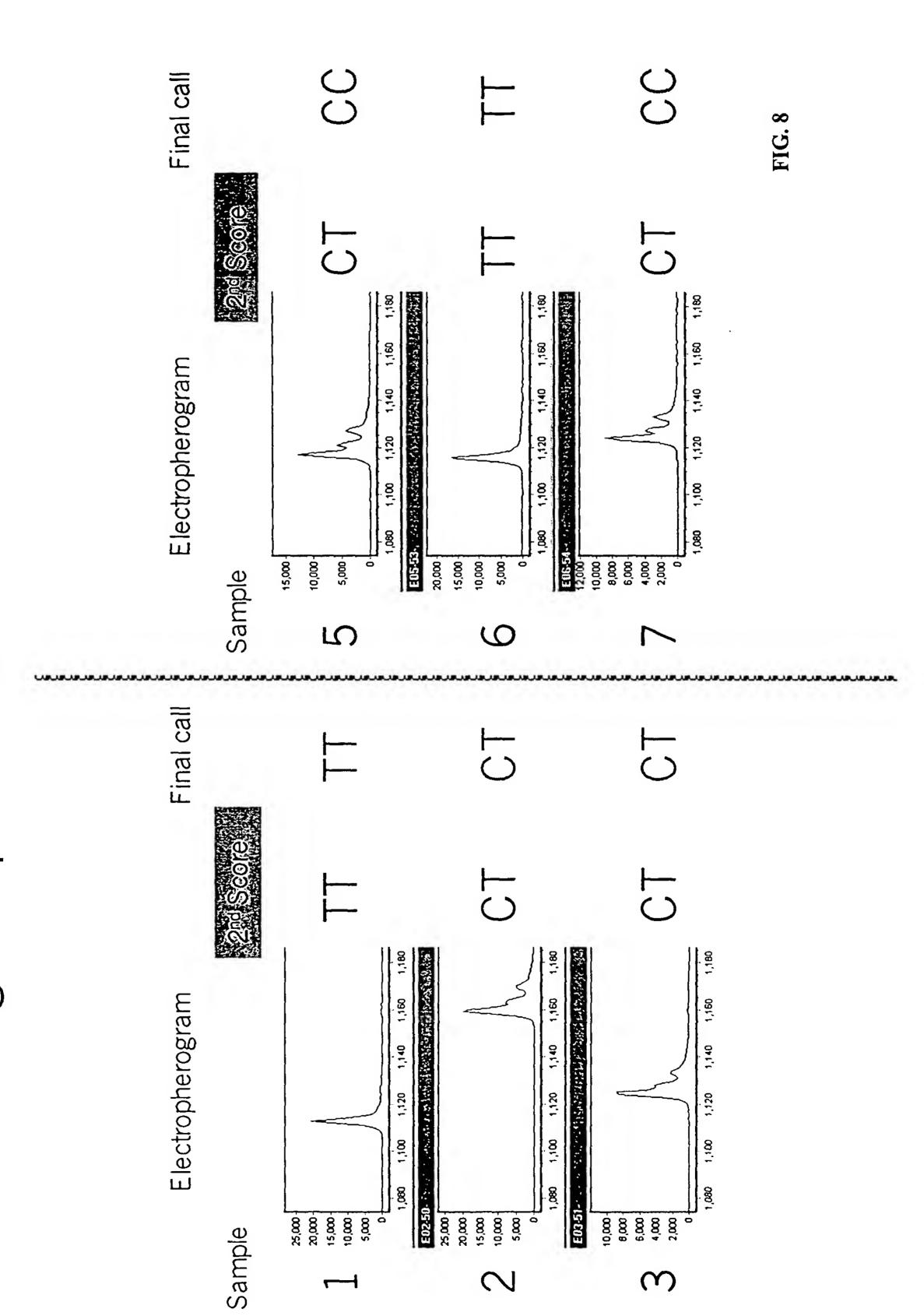
Testing Samples Mixed with Control TT

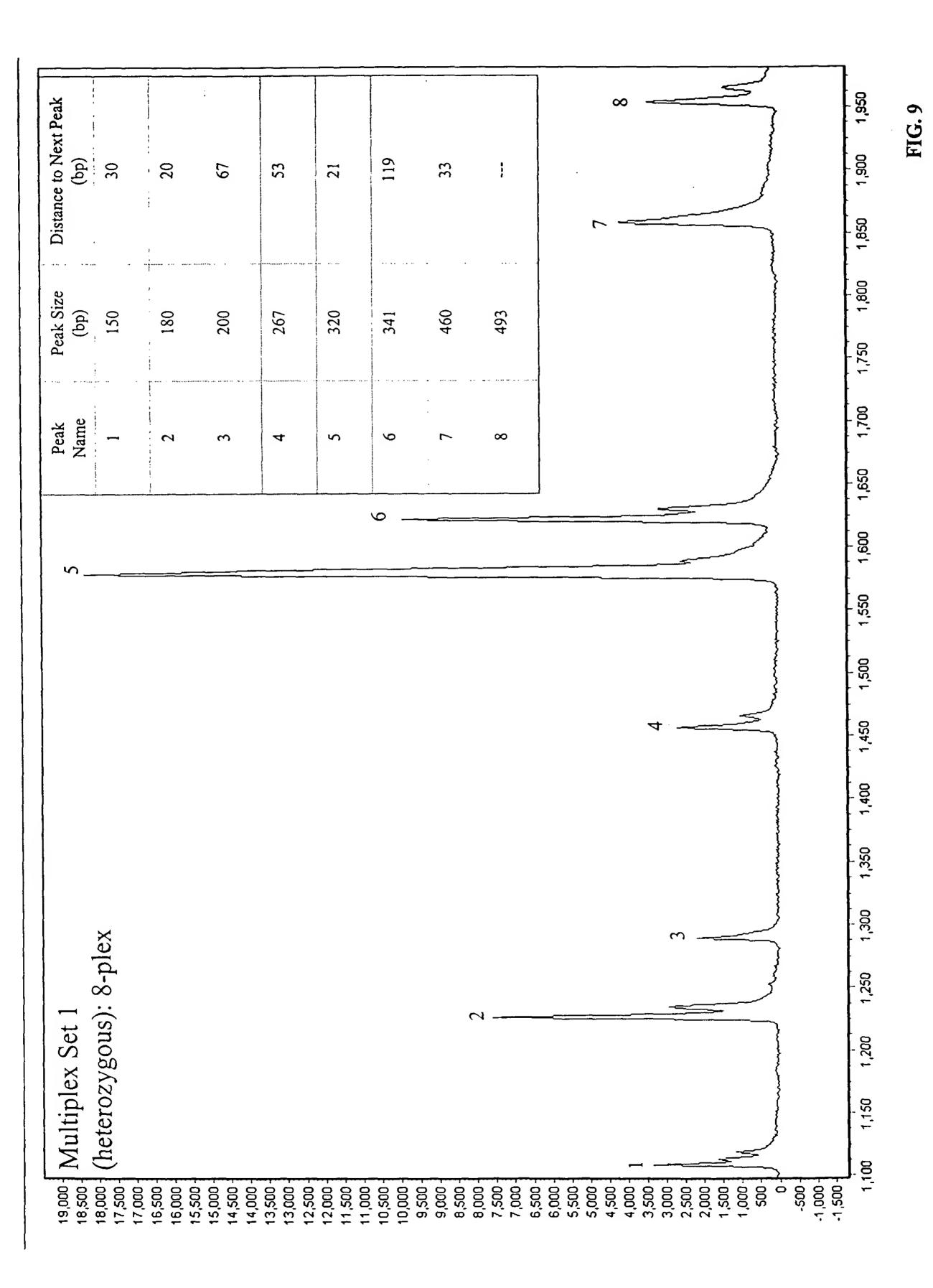


Mixed with Control CC Testing Samples

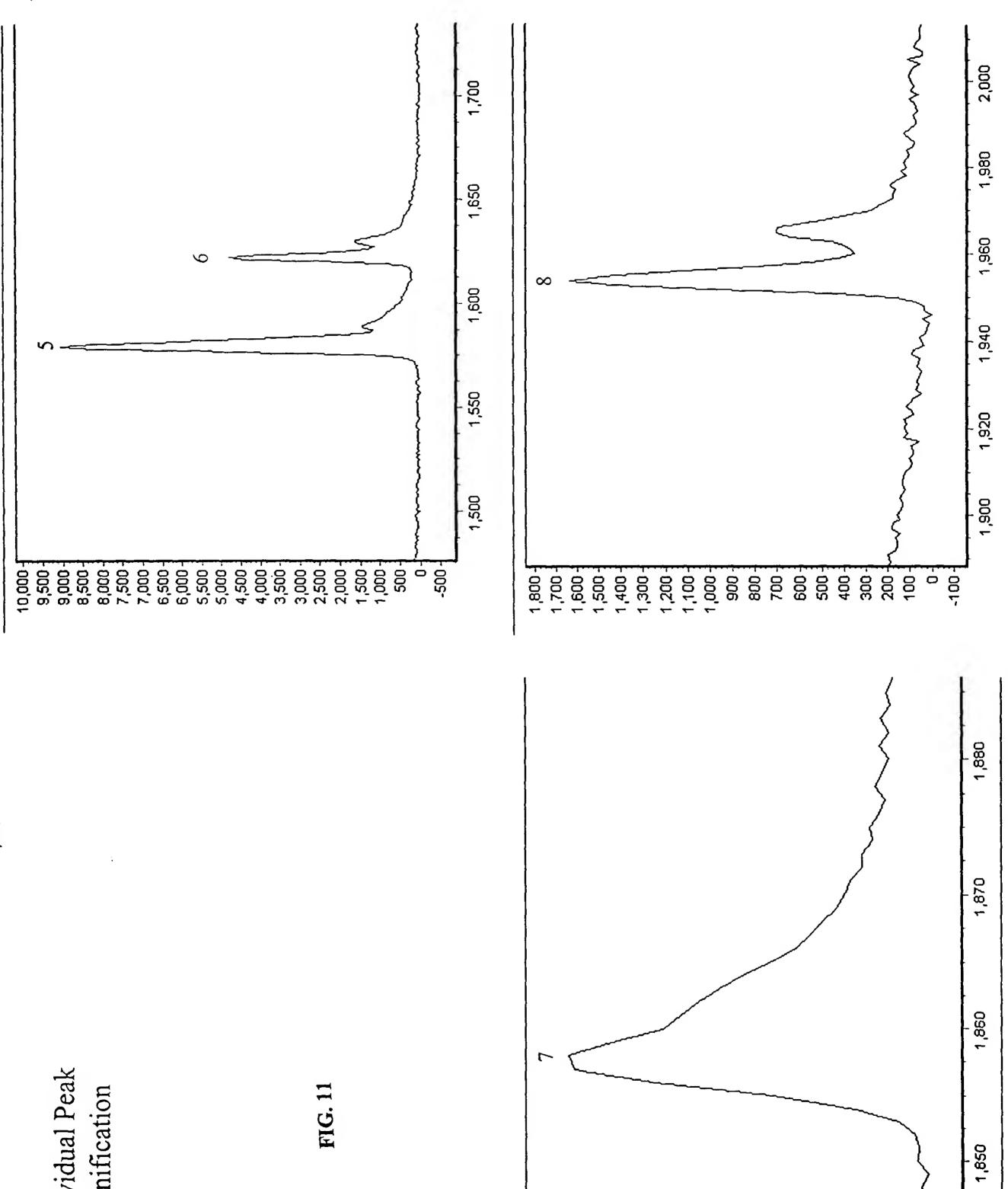


Mixed with Control TI Testing Samples





Individual Peak Magnification



1,800

2,200

2,000

1,600

1,400-

1,000

1,200

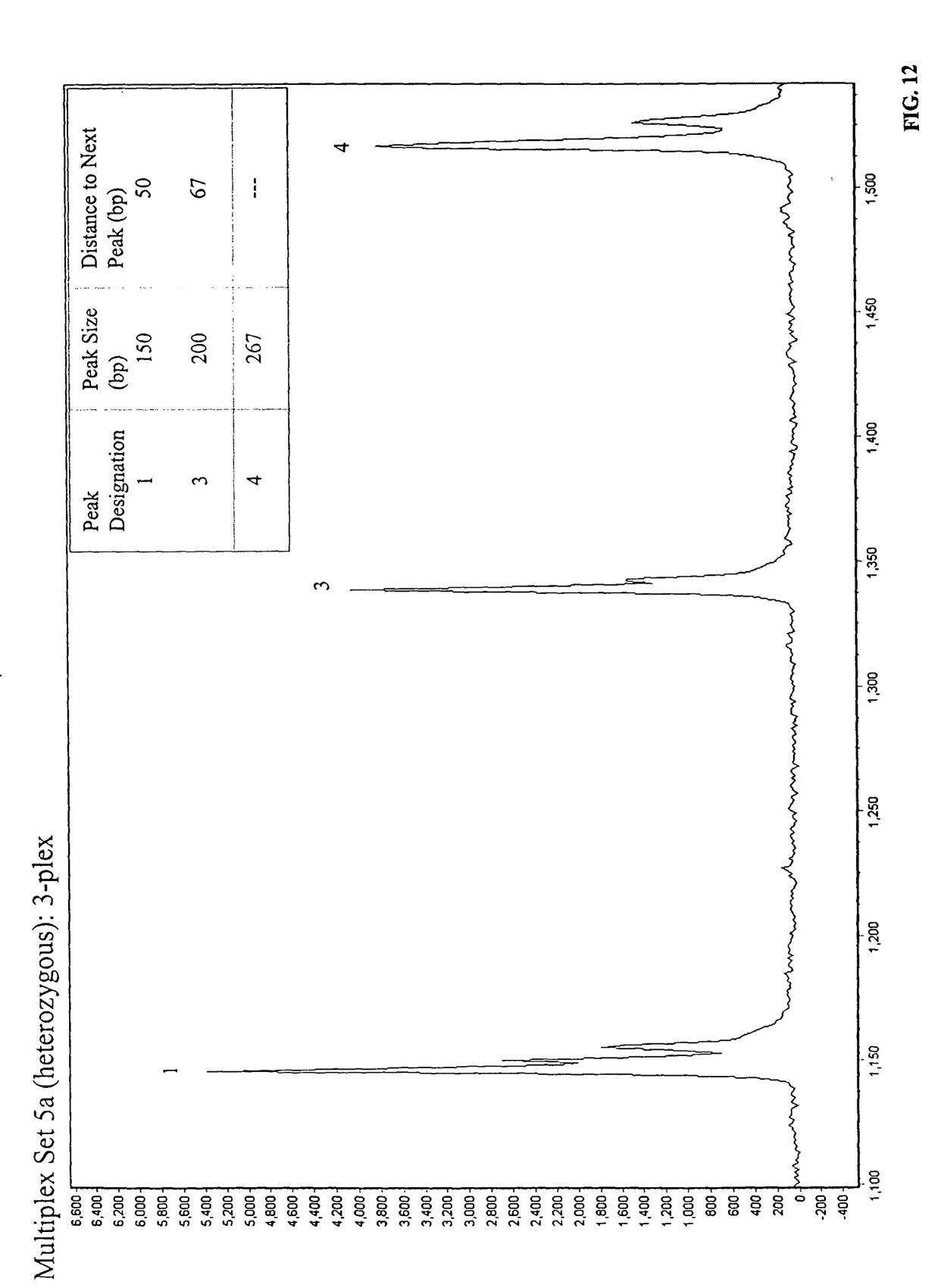
200

400

600

800

ò



1,500 Distance to Next Peak (bp) **67** ! ! ! 1,450 Peak Size (bp) 150 200 267 1,400 Designation \sim 4 Peak 1,350 1,300 1,250 Multiplex Set 5b (homozygous): 3-plex 1,200 1,100 2,000 4,800 4,600 4,400 4,200 4,000 3,800 3,600 3,400 3,000 -400-3,200 1,000 2,800 2,600 2,400-2,200 2,000 1,800 -200-1,600 1,400 1,200 800 - 009 6 200

FIG. 13

Procedure Flowchart

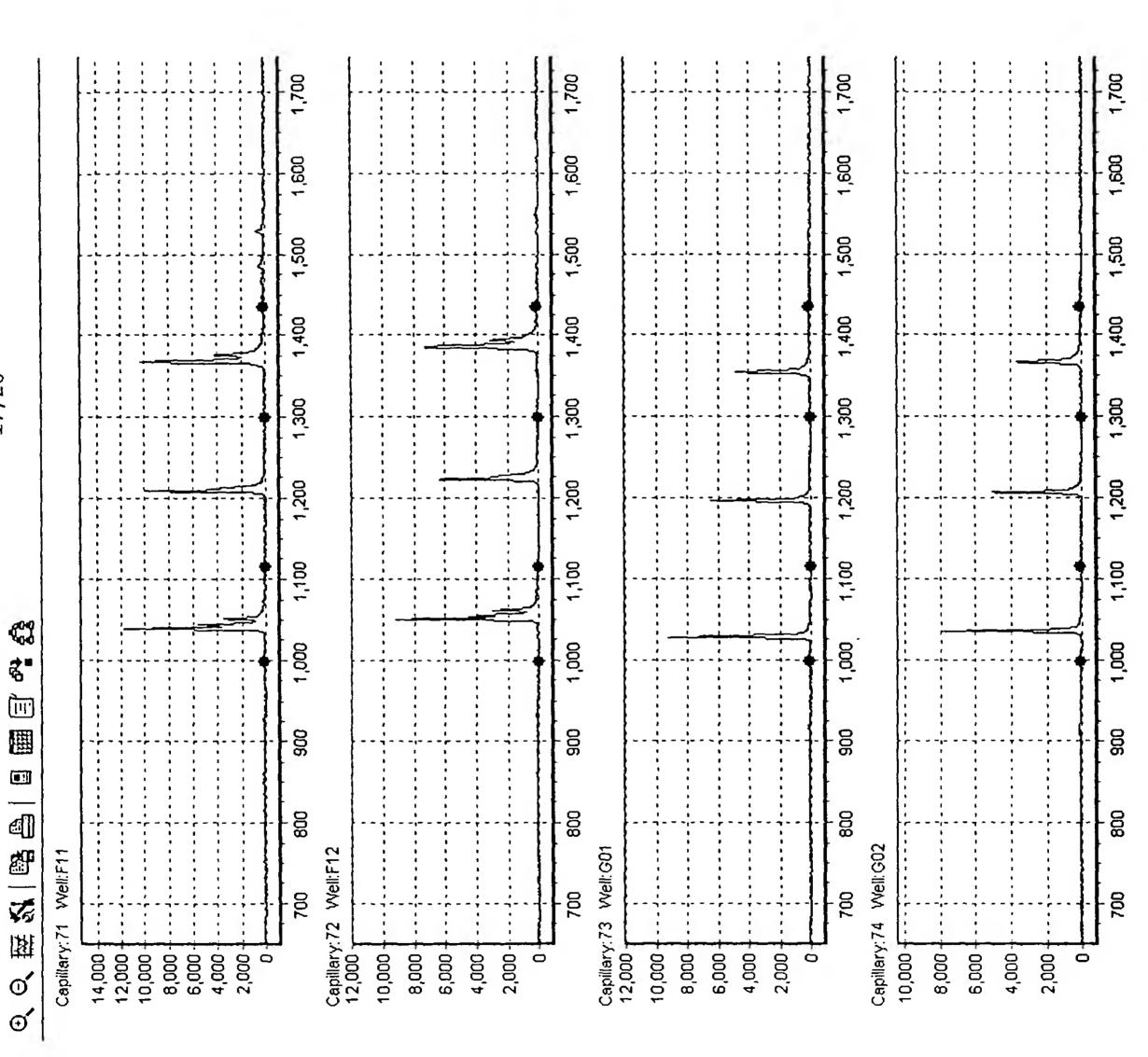
Forming heteroduplexes directly and/or adding the PCR product of wild-type control to testing PCR samples, then performing heteroduplex formation PCR amplification of DNA regions of interest, either single reaction or Combining single and/or multiplexed PCR reactions separation by temperature gradient electrophoresis Data analysis/genotype scores multiplexed reactions

FIG. 14

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FIG. 15

Cap # It Sample ID Corticol # It Corticol # Cortico		हैं। दि						
001 (37)	Cap #	Sample ID	Control #	1 ← 1	Mutation Score	Call	Confidence Score	Comments
002 (39)	(3)			20	227	+	100	
000 (39)	_		D07 (43)	8	191	+	100	,
D07 (43)	03 [3		D07 (43)	8	110	+	100	
D05 (41) D07 (43) CC	D04 (007 (43)	8	9		0	
006 (42)			007 (43)	8	274	+	100	
DOD7 (43) DOT7 (43) CC 183 + 100 DOB8 (44) DOT7 (43) CC 183 + 100 DOB8 (45) DOS9 (45) TT 0 0 . 0 0 DOB9 (45) DOS9 (45) TT 170 + 100 DOS9 (45) TT 171 DOS9 (45)			D07 (43)	22	7		0	
008 (44)	07 (D07 (43)	8	0		0	
008 (45)	4		D07 (43)	23	183	+	100	
E02 (50) DOS (45) TT 177 + 100 E02 (50) DOS (45) TT 177 + 100 E03 (51) DOS (45) TT 122 + 100 E04 (52) DOS (45) TT 196 + 100 E04 (52) DOS (45) TT 196 + 100 E05 (53) DOS (45) TT 196 + 100 E05 (54) DOS (45) TT 198 + 100 E05 (54) DOS (45) TT 158 + 100 E05 (55) DOS (45) TT 158 + 100			009 (45)	11	0		0	
E02 (50) D09 (45) TT 171 + 100 E03 (51) D09 (45) TT 122 + 100 E04 (52) D09 (45) TT 186 + 100 E04 (52) D09 (45) TT 99 · 100 E05 (53) D09 (45) TT 99 · 100 E05 (53) D09 (45) TT 188 + 100 E05 (54) D09 (45) TT 188 + 100 E) 10) 60	11	28		20	
E04 [52] D09 [45] TT 122 + 100 E04 [52] D09 [45] TT 186 + 100 E05 [53] D09 [45] TT 9 9 . 100 E05 [54] D09 [45] TT 158 + 100 E05 [54] D09 [45] TT 158 + 100 E05 [54] D09 [45] TT 158 + 100 E05 [54] D09 [45] TT 100 E05 [54]	02 (11	171	+	100	
E04 (52)	33		D09 (45)	11	122	, +	100	
E06 [54] D09 [45] TT 9	04 (_	11	186	+	100	
Sample D009 (45) TT 158	E05 (7	11	တ		0	
Sample ID Sample ID Cap Number In In Sample ID Sample ID In In In In In In In	E06 (4	11	158	+	100	
Sample ID Cap Number Genot ype Comments Sample ID 37.49 TT TT Sample ID Sample ID TT Sample ID		II Result						
. Sample ID Cap Number GenoType Comments Sample ID 37.49 T1 Sample ID Sa								
38:50 TT 38:50 CT 39:51 CT 40:52 CC 41:53 TT	No.	Sar	nple 10	11 970		GenoType :	Commerits	
38:50 CT 39:51 CT 40:52 CC 41:53 TI 72:42:54 CC	-	٠		37:49		11		
. 40:52 CC CC 41:53 TT CC	2	•		38:50		כו		
. 40:52 CC CC	က	•		39:51		כו		
. 41:53 TT	\$	٠		40:52		8		
. CC +2:54	5	•		41:53		<u></u>		
	9	•		42:54		33		FIG. 16



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	CONTROL	27. WILD TYPE
NEGATIVE RESULT		
POSITIVE RESULT		

FIG. 18

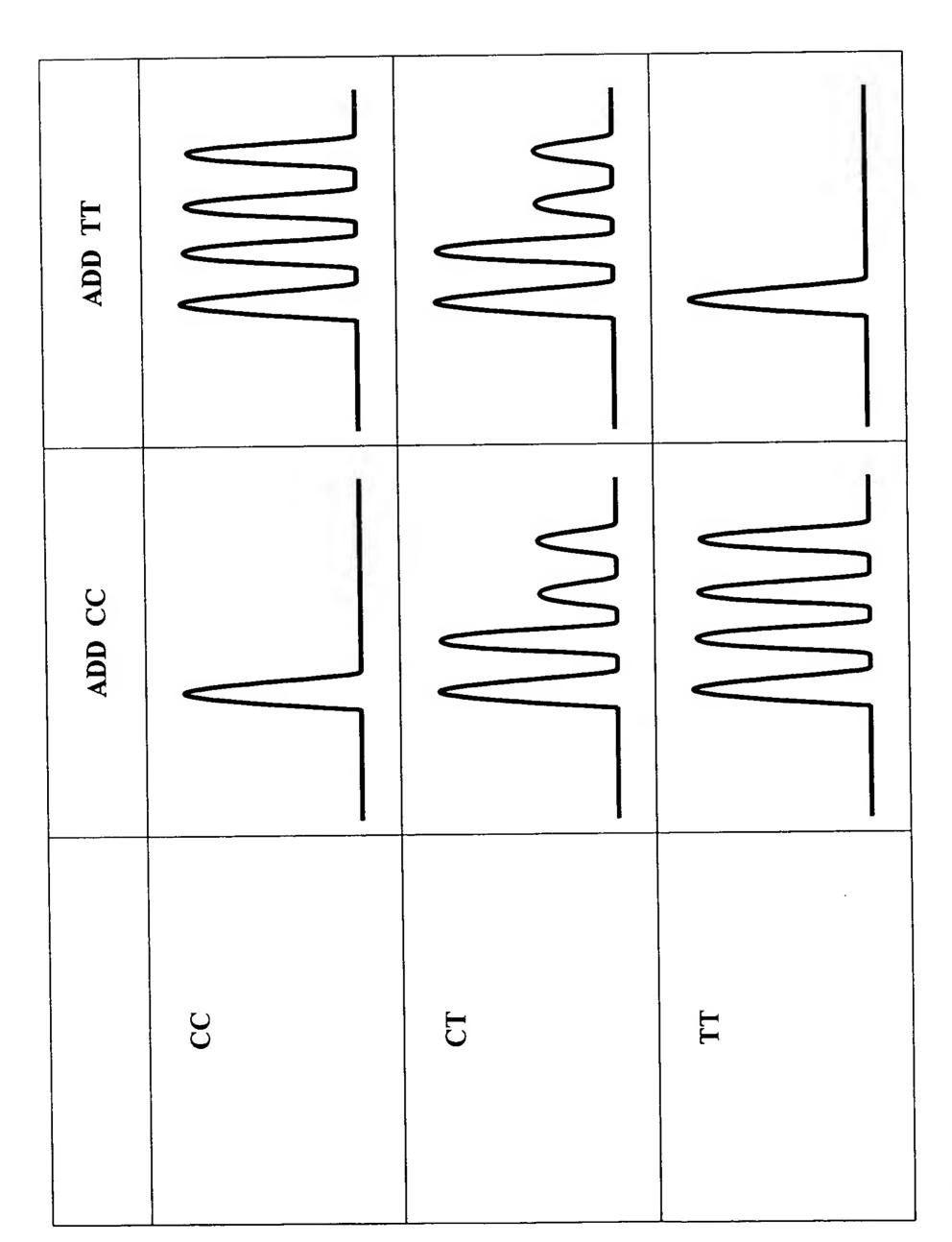


FIG. 19

